

**DECLARATION AND POWER OF ATTORNEY - ORIGINAL APPLICATION****Attorney's Docket No.  
200-0767**

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name;

I verily believe I am the original, first and sole inventor or an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled

**VEHICLE TRAJECTORY CONTROL SYSTEM**

the specification of which is attached hereto.

I have reviewed and understand the contents of the specification identified above, including the claims.

I acknowledge my duty to disclose information of which I am aware that is material to the examination of this application in accordance with Section 1.56(a), Title 37 of the Code of Federal Regulations; and

as to application for patents or inventor's certificate on the invention filed in any country foreign to the United States of America, prior to this application by me or my legal representatives or assigns,

☒ no such applications have been filed, or

☐ such applications have been filed as follows

COUNTRY	APPLICATION NO.	DATE OF FILING (month, day, year)	DATE OF ISSUE (month, day, year)	PRIORITY CLAIMED UNDER 35 USC 119

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

\_\_\_\_\_  
(Application Number)                      (Filing Date)                      (Status - patented, pending, abandoned)

\_\_\_\_\_  
(Application Number)                      (Filing Date)                      (Status - patented, pending, abandoned)

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the United States Patent and Trademark Office connected therewith and to act on my behalf before the competent International Authorities in connection with any and all international applications filed by me.  
(List name and registration number)

**John D. Russell - 47,048**

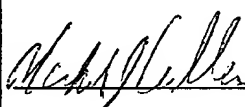
**Allan J. Lipka - 32,258**

**Jerome R. Drouillard - 28,008**

Address all correspondence and telephone calls to:

John D. Russell  
Ford Global Technologies, Inc.  
One Parklane Boulevard  
600 East Parklane Towers  
Dearborn, Michigan 48126 Telephone: 1-313-8451008

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.


NAME AND POST OFFICE ADDRESS OF INVENTOR:	RESIDENCE	CITIZENSHIP	SIGNATURE	DATE
Michael John Cullen 41750 Camden Ct. Northville, Mich 48167 US	Northville, Mich 48167 US	U.S.A		9/10/00
Ralph Wayne Cunningham 13242 Fuller Rd. Milan, MI, 48160 US	Milan, MI, 48160 US	U.S.A		

009260-ETH0936

Address all correspondence and telephone calls to:

John D. Russell  
Ford Global Technologies, Inc.  
One Parklane Boulevard  
600 East Parklane Towers  
Dearborn, Michigan 48126 Telephone: 1-313-8451008

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NAME AND POST OFFICE ADDRESS OF INVENTOR:	RESIDENCE	CITIZENSHIP	SIGNATURE	DATE
Michael John Cullen 41750 Camden Ct. Northville, Mich 48167 US	Northville, Mich 48167 US	U.S.A		
Ralph Wayne Cunningham 13242 Fuller Rd. Milan, MI, 48160 US	Milan, MI, 48160 US	U.S.A		12 Sept. 2000



**UNITED STATES DEPARTMENT OF COMMERCE**

**Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

MAY 10, 2001

PTAS

FORD GLOBAL TECHNOLOGIES, INC.  
RAYMOND L. COPPIELLIE  
ONE PARKLANE BLVD.  
PARKLANE TOWERS EAST, STE 600  
DEARBORN, MI 48126



\*101621575A\*

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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/05/2001

REEL/FRAME: 011552/0450  
NUMBER OF PAGES: 19

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

**ASSIGNOR:**

FORD MOTOR COMPANY, A DELAWARE  
CORPORATION

DOC DATE: 12/31/2000

**ASSIGNEE:**

FORD GLOBAL TECHNOLOGIES INC., A  
MICHIGAN CORPORATION  
ONE PARKLANE BOULEVARD  
PARKLANE TOWERS EAST, SUITE 600  
DEARBORN, MICHIGAN 48126

SERIAL NUMBER: 09686385  
PATENT NUMBER:

FILING DATE: 10/11/2000  
ISSUE DATE:

SERIAL NUMBER: 09686036  
PATENT NUMBER:

FILING DATE: 10/11/2000  
ISSUE DATE:

SERIAL NUMBER: 09669211  
PATENT NUMBER:

FILING DATE: 09/25/2000  
ISSUE DATE:

011552/0450 PAGE 6

SERIAL NUMBER: 09686706  
PATENT NUMBER:

FILING DATE: 10/11/2000  
ISSUE DATE:

SERIAL NUMBER: 09676747  
PATENT NUMBER:

FILING DATE: 09/29/2000  
ISSUE DATE:

SERIAL NUMBER: 09681004  
PATENT NUMBER:

FILING DATE: 11/03/2000  
ISSUE DATE:

SERIAL NUMBER: 09688992  
PATENT NUMBER:

FILING DATE: 10/17/2000  
ISSUE DATE:

SERIAL NUMBER: 09684077  
PATENT NUMBER: 6237943

FILING DATE: 10/07/2000  
ISSUE DATE: 05/29/2001

SERIAL NUMBER: 09716595  
PATENT NUMBER:

FILING DATE: 11/20/2000  
ISSUE DATE:

SERIAL NUMBER: 09731371  
PATENT NUMBER:

FILING DATE: 12/06/2000  
ISSUE DATE:

SERIAL NUMBER: 09698534  
PATENT NUMBER:

FILING DATE: 10/30/2000  
ISSUE DATE:

SERIAL NUMBER: 09732330  
PATENT NUMBER:

FILING DATE: 12/07/2000  
ISSUE DATE:

SERIAL NUMBER: 09732262  
PATENT NUMBER:

FILING DATE: 12/07/2000  
ISSUE DATE:

SERIAL NUMBER: 09723457  
PATENT NUMBER:

FILING DATE: 11/28/2000  
ISSUE DATE:

SERIAL NUMBER: 09669603  
PATENT NUMBER:

FILING DATE: 09/26/2000  
ISSUE DATE:

SERIAL NUMBER: 09681049  
PATENT NUMBER:

FILING DATE: 12/08/2000  
ISSUE DATE:

SERIAL NUMBER: 09669443  
PATENT NUMBER:

FILING DATE: 09/26/2000  
ISSUE DATE:

SERIAL NUMBER: 09730181  
PATENT NUMBER:

FILING DATE: 12/05/2000  
ISSUE DATE:

SERIAL NUMBER: 09711974  
PATENT NUMBER:

FILING DATE: 11/14/2000  
ISSUE DATE:

SERIAL NUMBER: 09711978  
PATENT NUMBER:

FILING DATE: 11/14/2000  
ISSUE DATE:

SERIAL NUMBER: 09709618  
PATENT NUMBER:

FILING DATE: 11/10/2000  
ISSUE DATE:

02-27-2001

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101621575

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

**Submission Type**

☒ New

☐ Resubmission (Non-Recordation)  
Document ID#

☐ Correction of PTO Error  
Re I #  Frame #

☐ Corrective Document  
Re I #  Frame #

**Conveyance Type**

☒ Assignment ☐ Security Agreement

☐ License ☐ Change of Name

☐ Merger ☐ Other

**U.S. Government**  
(For Use ONLY by U.S. Government Agencies)

☐ Departmental File ☐ Secret File

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year  
12 31 2000

Name (line 1) Ford Motor Company

Name (line 2) A Delaware Corporation

**Second Party**

Name (line 1)

Name (line 2)

Execution Date  
Month Day Year

09 6 8 6 3 8 5

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1) Ford Global Technologies Inc.

Name (line 2) A Michigan Corporation

Address (line 1) Suite 600 - Parklane Towers East

Address (line 2) One Parklane Boulevard

Address (line 3) Dearborn MI - USA 48126

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

26/2001 GTON11 00000136 061510 09686385  
FC:581 4800.00 CH

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Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

**Area Code and Telephone Number**

313-337-1069

**Name**

Raymond L. Coppellie - 33.311

**Address (line 1)**

Ford Global Technologies, Inc.

**Address (line 2)**

Suite 600 - Parklane Towers East

**Address (line 3)**

One Parklane Boulevard

**Address (line 4)**

Dearborn, MI 48126

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

#

17

**Application Number(s) or Patent Number(s)**



Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number

only if a U.S. Application Number has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

#

150

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$

4,800.00

**Method of Payment:**

**Deposit Account**

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Enclosed ☐

Deposit Account ☒

Deposit Account Number:

#

06-1-510

Authorization to charge additional fees:

Yes



No



**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Raymond L. Coppellie

Name of Person Signing

Raymond L. Coppellie

Signature

1-30-01

Date

## PATENT APPLICATION ASSIGNMENT

WHEREAS, Ford Motor Company ("Ford"), a corporation organized and existing by virtue of the laws of the State of Delaware, and having a principal place of business at Dearborn, County of Wayne, and State of Michigan, is the owner of the inventions claimed in the applications having the U.S. Serial Numbers listed in Attachment A hereto;

WHEREAS, Ford Global Technologies, Inc., ("FGTI") a corporation organized and existing by virtue of the laws of the State of Michigan, and having a principal place of business at Dearborn, County of Wayne, and State of Michigan, is desirous of acquiring an interest in each of said inventions;

NOW, THEREFORE, Ford, by these presents does assign and transfer unto FGTI the full and exclusive right for the United States of America and for all foreign countries to said inventions, together with all patents, applications, divisionals, continuations-in-part, continuations, renewals, or secondary filings thereof.

Effective December 31, 2000.

FORD MOTOR COMPANY

By:  *210*

Title: Assistant Secretary



# Attachment A

Docket ID	Serial No.	Filing Date	Inventors Last Name	Title
198-0239	09/686385	10/11/00	Amatangelo Prakash	ROBUST ENCODING SCHEME FOR A SHIFT MOTOR ENCODER ASSEMBLY AND A SYSTEM USING THE SAME
198-0809	09/686036	10/11/00	Connolly Leisenring Dobbins	SYSTEM AND METHOD FOR COLD START CONTROL OF INTERNAL COMBUSTION ENGINES
199-0281	09/669211	9/25/00	Sepe Miller	FUZZY LOGIC CONTROLLER OPTIMIZATION
199-0483	09/691668	10/18/00	Chottiner Vrsek Madin German Rao	VARIABLE COMPRESSION RATIO CONNECTING RODS
199-0717	09/688104	10/13/00	Edmunds Balzer Maj Dellock	MULTI-FUNCTIONAL RADIATOR SUPPORT ASSEMBLY
199-0718	09/688102	10/13/00	Dellock Maj Balzer Edmunds	MULTI-FUNCTIONAL RADIATOR SUPPORT ASSEMBLY
199-0719	09/688101	10/13/00	Balzer	METHOD FOR COATING RADIATOR SUPPORT ASSEMBLY

Docket ID	Serial No.	Filing Date	Inventors Last Name	Title
200-0728	09/681049	12/8/00		METHOD AND SYSTEM FOR MONITORING DEGRADATION OF A CATALYTIC CONVERTER
200-0767	09/669443	9/26/00	Reichenbach Orzel Clark	VEHICLE TRAJECTORY CONTROL SYSTEM
200-0793	09/730181	12/5/00	Cullen Cunningham	MODE TRANSITION CONTROL SCHEME FOR INTERNAL COMBUSTION ENGINES USING UNEQUAL FUELING
200-0834	09/711974	11/14/00	Kolmanovsky Sun Cook	DASHBOARD RAIL AND STEERING COLUMN SUPPORT
200-0835	09/711978	11/14/00	Ellis Scott	MESH VEHICLE SEATS
200-0836	09/709618	11/10/00	Ellis Scott	ADJUSTABLE REAR SEAT BACK SUPPORT
200-0838	09/732347	12/7/00	Williams Ellis	VARIABLE DISPLACEMENT ENGINE CONTROL FOR FAST CATALYST LIGHT-OFF
200-0913	09/690277	10/17/00	Michellini Glugla	A VEHICLE B-PILLAR WITH IMPROVED VISIBILITY AND SAFETY
200-0940	09/670354	9/26/00	Jonsell Mendis Frasher Loczi	CONTROL FOR VEHICLE WITH TORQUE CONVERTER



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

JANUARY 02, 2001

PTAS

FORD GLOBAL TECHNOLOGIES, INC.  
JOHN D. RUSSELL  
SUITE 600 - PARKLANE TOWERS EAST  
ONE PARKLANE BOULEVARD  
DEARBORN, MI 48126



\*101505949A\*

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RECORDATION DATE: 09/26/2000

REEL/FRAME: 011198/0771

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CULLEN, MICHAEL JOHN

DOC DATE: 09/11/2000

ASSIGNOR:

CUNNINGHAM, RALPH WAYNE

DOC DATE: 09/12/2000

ASSIGNEE:

FORD MOTOR COMPANY  
THE AMERICAN ROAD  
DEARBORN, MICHIGAN 48121

SERIAL NUMBER: 09669443

FILING DATE: 09/26/2000

PATENT NUMBER:

ISSUE DATE:

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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JAN 08 2001

FORD GLOBAL TECHNOLOGIES, INC.

9.26.00

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

11-06-2000

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

Docket No. 200-0767

101505949

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Document ID#



Correction of PTO Error

Reel #

Frame #



Corrective Document

Reel #

Frame #

**Conveyance Type**

Assignment



Security Agreement



License



Change of Name



Merger



Other

**U.S. Government**

(For Use ONLY by U.S. Government Agencies)



Departmental File



Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

Name (line 1)

Cullen, Michael John

Execution Date  
Month Day Year  
9-11-00

Name (line 2)

**Second Party**

Name (line 1)

Cunningham, Ralph Wayne

Execution Date  
Month Day Year  
9-12-00

Name (line 2)

09669443

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1)

Ford Motor Company



If document to be recorded  
is an assignment and the  
receiving party is not  
domiciled in the United  
States, an appointment  
of a domestic  
representative is attached.  
(Designation must be a  
separate document from  
Assignment.)

Name (line 2)

A Delaware Corporation

Address (line 1)

The American Road

Address (line 2)

Address (line 3)

Dearborn

MI - USA

48121

City

State/Country

Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

11/03/2000 DBYRNE 00000049 061500 09669443

01 FC:581

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U.S. PTO 09/669443

09/26/00

**Correspondent Name and Address**

Area Code and Telephone Number 1-313-8451008

Name John D. Russell - 47,048

Address (line 1) Ford Global Technologies, Inc.

Address (line 2) Suite 600 - Parklane Towers East

Address (line 3) One Parklane Boulevard

Address (line 4) Dearborn, MI 48126

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# 2

**Application Number(s) or Patent Number(s)**

☐ Mark if additional numbers attached

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Patent Application Number(s)

Patent Number(s)


If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
9-11-00

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT            PCT            PCT             
PCT            PCT            PCT           

**Number of Properties**

Enter the total number of properties involved.

#           

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:  
Deposit Account

Enclosed ☐ Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 06-1500

Authorization to charge additional fees:

Yes ☒ No ☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Maria Leos

Name of Person Signing

Maria Leos

Signature

September 26, 2000

Date

[ ]

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**ASSIGNMENT**

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

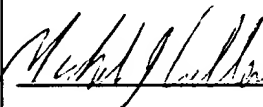
Attorney Docket No. **200-0767** entitled: **VEHICLE TRAJECTORY CONTROL SYSTEM**  
for which I/we intend to make application for Letters Patent of the United States listing the following as  
inventors:

Ralph Cunningham  
Michael Cullen; and

WHEREAS, FORD MOTOR COMPANY, a corporation organized and existing by virtue of the laws  
of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of  
Michigan, is desirous of acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with FORD MOTOR  
COMPANY, or by my contractual obligation, I do sell, assign and transfer unto FORD MOTOR COMPANY the  
full and exclusive right for the United States of America and for all foreign countries to the said invention, as  
described in the specification executed by me on the date listed below, preparatory to obtaining Letters Patent  
of the United States therefor (and I hereby authorize my attorneys to insert the serial number and filing date  
herein:

Serial No. \_\_\_\_\_, Filing Date \_\_\_\_\_), and I hereby request the Commissioner of  
Patents and Trademarks to issue said Letters Patent to FORD MOTOR COMPANY as the assignee.  
Executed by:

NAME	SIGNATURE	DATE
Michael John Cullen 41750 Camden Ct. Northville, Mich 48167 US		2/24/00
Ralph Wayne Cunningham 13242 Fuller Rd. Milan, MI, 48160 US		

Russell

[ ]

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**ASSIGNMENT**

WHEREAS, THE UNDERSIGNED,

has/have invented certain new and useful improvements in:

Attorney Docket No. **200-0767** entitled: **VEHICLE TRAJECTORY CONTROL SYSTEM**  
for which I/we intend to make application for Letters Patent of the United States listing the following as  
inventors:

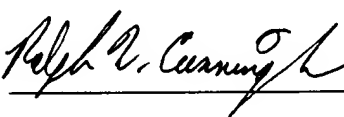
Ralph Cunningham

Michael Cullen; and

WHEREAS, FORD MOTOR COMPANY, a corporation organized and existing by virtue of the laws  
of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of  
Michigan, is desirous of acquiring an interest therein;

NOW, THEREFORE, pursuant to my employment agreement heretofore made with FORD MOTOR  
COMPANY, or by my contractual obligation, I do sell, assign and transfer unto FORD MOTOR COMPANY the  
full and exclusive right for the United States of America and for all foreign countries to the said invention, as  
described in the specification executed by me on the date listed below, preparatory to obtaining Letters Patent  
of the United States therefor (and I hereby authorize my attorneys to insert the serial number and filing date  
herein:

Serial No. \_\_\_\_\_, Filing Date \_\_\_\_\_), and I hereby request the Commissioner of  
Patents and Trademarks to issue said Letters Patent to FORD MOTOR COMPANY as the assignee.  
Executed by:

NAME	SIGNATURE	DATE
Michael John Cullen 41750 Camden Ct. Northville, Mich 48167 US	_____	_____
Ralph Wayne Cunningham 13242 Fuller Rd. Milan, MI, 48160 US		<u>12 Sept. 2000</u>

*Russell*